

GFZ Ultra Low Impedance series

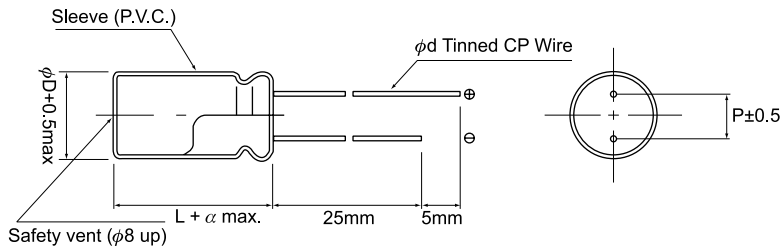


- Extremely low impedance and high ripple current,
- Suitable for used in M/B and other high frequency application.
- Life guaranteed 2,000 hours at 105°C

• **Specifications**

Item	Performance Characteristics				
Operating Temperature range	-40 + 105°C				
Rated Voltage	6.3V ~ 16V				
Capacitance Range	470 ~ 5,600 µF				
Capacitance Tolerance	±20% (120Hz, 20°C)				
Leakage Current	I ≤ 0.02CV or 4 µA, whichever is greater after 2 minutes application of rated voltage.				
Dissipation Factor	Rated voltage (V)	6.3	10	16	(120Hz, 20°C)
	Tan δ (max.)	0.22	0.19	0.16	
For capacitance of more than 1,000µF, add 0.02 for every increase of 1,000µF.					
Temperature Characteristics	Impedance Ratio / Stability at Low Temperature				
	Rated voltage (V)	6.3	10	16	(120Hz)
	Z (-25°C) / Z (20°C)	2	2	2	
	Z (-40°C) / Z (20°C)	3	3	3	
Load Life	After 2,000 hours application of rated voltage and ripple current at 105°C, capacitor shall meet the characteristics requirements mentioned below.				
	Capacitance change	Within ±25% of initial value			
	Tan δ	200% or less of initial specified value			
	Leakage current	Initial specified value or less			
Shelf Life	At 105°C, no voltage applied for 1,000 hours, the capacitor shall meet the limits as in load life.				

• **Dimension (mm)**



Dφ	8	10	13
P	3.5	5.0	5.0
φd	0.6		
α	2.0		

• **Standard Products Table**

Cap (µF)	WV	6.3V			10V			16V		
		Size	Impedance	Ripple	Size	Impedance	Ripple	Size	Impedance	Ripple
470					8 x 11	0.030	1140	8 x 11	0.030	1140
								10 x 12	0.025	1540
680					8 x 11	0.030	1140	8 x 15	0.028	1490
								10 x 12	0.026	1540
820		8 x 11	0.036	1140						
1000		8 x 11	0.030	1140	8 x 15	0.028	1490	8 x 20	0.021	1870
		10 x 12	0.025	1540	10 x 12	0.026	1540	10 x 16	0.019	2000
1200		8 x 15	0.028	1490						
1500		10 x 12	0.026	1540	8 x 20	0.021	1870	10 x 20	0.013	2550
1800		8 x 20	0.021	1870	10 x 20	0.013	2550	10 x 25	0.012	2800
		10 x 16	0.019	2000						
2200		10 x 20	0.013	2550	10 x 25	0.012	2800	13 x 20	0.011	2940
3300		10 x 25	0.012	2800	13 x 20	0.011	2940	13 x 31	0.009	3950
3900		13 x 20	0.011	2940	13 x 25	0.010	3400			
4700		13 x 25	0.010	3400	13 x 31	0.009	3950			
5600		13 x 25	0.010	3400						

• Impedance: (Ω) 20°C 100 KHz • Ripple current (mA) at 105°C 100 KHz